NEWZEN CONSULTANT Bangalore

NC/QC/BD/2021-22/W5-SMT-C1

Date: 24-03-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Drains and Asphalting to Srirampura, MCECHS Layout, Telecom Layout Surrounding area in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Charan Constructions. (Prop: Kothandaraju T.S)

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**154 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.98 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.13mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.54 N/Sq mm**	Shall not be less than 27 N/Sqmm

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

For Newzen Consultants Bangalore
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NC/QC/BD/2021-22/W5-SMT-PCC1 Date: 24-03-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Drains and Asphalting to Srirampura, MCECHS Layout, Telecom Layout Surrounding area in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Charan Constructions. (Prop: Kothandaraju T.S)

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.50	0 -20	30- 70
10mm	28.10	0 -5	10- 35
4.75mm	3.85	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.45	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	83.10	60-95	75-100	85-100	
01.18	71.90	30-70	55-90	75-100	
600.mic	46.20	15-34	35-59	60-79	
300.mic	23.60	5-20	8-30	12-40	
150.mic	5.30	0-10	0-10	0-10	

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NCB/QC/BD/2021-22/W5-SMT-CE1 Date: 27-03-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Drains and Asphalting to Srirampura, MCECHS Layout, Telecom Layout Surrounding area in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Charan Constructions. (Prop: Kothandaraju T.S)

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**162 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.86 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.13 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results	**28.09 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/BD/2021-22/W5-SMT-FA1 Date: 27-03-2021

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Improvements to Drains and Asphalting to Srirampura, MCECHS Layout, Telecom Layout Surrounding area in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Charan Constructions. (Prop: Kothandaraju T.S)

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**97.40**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**82.15**	60-95	75-100	85-100	
01.18	**74.35**	30-70	55-90	75-100	
600. mic	**46.20**	15.34	35-59	60-79	
300.mic	**24.55**	5-20	8-30	12-40	
150.mic	**7.05**	0-10	0-10	0-10	

TABLE 1.2 :

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.86 %**	-----
2	Silt Content	----	**0.59%**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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NC/QC/BD/2021-22/W5-SMT-CA1 **Date: 27-03-2021**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements to Drains and Asphalting to Srirampura, MCECHS Layout, Telecom Layout Surrounding area in Ward No 05 Jakkur Byatarayanapura Sub Division.}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Charan Constructions. (Prop: Kothandaraju T.S)

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**96.30**	85-100	90 - 100
10 mm	**44.90**	0 - 20	25 - 55
4.75 mm	**3.65**	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**25.63%**	Not to exceed 25 %
2.	Crushing value	**28.19 %**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/BD/2021-22/W5-SMT-S1 Date: 27-03-2021

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 mm **TMT Steel.**
{Project*: Improvements to Drains and Asphalting to Srirampura, MCECHS Layout, Telecom Layout Surrounding area in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Charan Constructions. (Prop: Kothandaraju T.S)

TABLE – 1

SL No	Details	For 10 mm	
		Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm
02	Observed Wt/m Length **Kg/m**	**0.623**	0.567
03	Proof stress/Yield stress, fy , **N/mm²**	**556.0**	500.0
04	Bend/ Re bend Test	**Ok**	---
05	Percentage of Elongation, %	**20.60**	12.00
06	Ultimate Tensile Strength **N/mm²**	**646.0**	545.0

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NC/QC/BD/2021-22/W5-SMT-SSM1

Date: 30-03-2021

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.

{Project*: Improvements to Drains and Asphalting to Srirampura, MCECHS Layout, Telecom Layout Surrounding area in Ward No 05 Jakkur Byatarayanapura Sub Division.}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Charan Constructions. (Prop: Kothandaraju T.S)

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	**1380.00** Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	**0.41 %**	Not more than 2.0 %

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NC/QC/BD/2021-22/W5-SMT-CB1 **Date: 08-04-2021**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Drains and Asphalting to Srirampura, MCECHS Layout, Telecom Layout Surrounding area in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Charan Constructions. (Prop: Kothandaraju T.S)

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	01-04-21	08-04-21	07	22500	370	16.44	**16.52**
	002	‘’	“	‘’	“	380	16.89	
	003	‘’	“	‘’	“	365	16.22	

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NC/QC/BD/2021-22/W5-SMT-CB1A

Date: 29-04-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Drains and Asphalting to Srirampura, MCECHS Layout, Telecom Layout Surrounding area in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Charan Constructions. (Prop: Kothandaraju T.S)

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	01-04-21	29-04-21	28	22500	520	23.11	**22.74**
	002	‘’	“	‘’	“	510	22.67	
	003	‘’	“	‘’	“	505	22.44	

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NC/QC/BD/2021-22/W5-SMT-W1 Date: 09-06-2021

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Drains and Asphalting to Srirampura, MCECHS Layout, Telecom Layout Surrounding area in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Charan Constructions. (Prop: Kothandaraju T.S)

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.45**	95-100
26.50	**---**	-
22.40	**72.05**	60-80
11.20	**56.35**	40-60
4.75	**34.70**	25-40
2.36	**22.45**	15-30
0.600	**18.10**	8-22
0.075	**3.90**	0-5

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For Newzen Consultants Bangalore

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NEWZEN CONSULTANT Bangalore

Date: 09-06-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.86%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.05%**	Not more than 35.0 %
3.	Water absorption, %	**0.41 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

Assistant Executive Engineer
Byatarayanapura Sub Division
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NC/QC/BD/2021-22/W5-SMT-W2 Date: 14-06-2021

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Drains and Asphalting to Srirampura, MCECHS Layout, Telecom Layout Surrounding area in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Charan Constructions. (Prop: Kothandaraju T.S)

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**96.45**	95-100
26.50	**---**	-
22.40	**73.05**	60-80
11.20	**51.35**	40-60
4.75	**35.70**	25-40
2.36	**22.45**	15-30
0.600	**17.10**	8-22
0.075	**3.65**	0-5

Asst. Executive Engineer
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NEWZEN CONSULTANT Bangalore

Date: 14-06-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.64%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.12%**	Not more than 35.0 %
3.	Water absorption, %	**0.41 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

Assistant Executive Engineer
Bommanahalli Zone Dn Division
B.B.M.P Bangalore-560024

For Newzen Consultants Bangalore
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NC/QC/BD/2021-22/W5-SMT-W3

Date: 18-06-2021

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Drains and Asphalting to Srirampura, MCECHS Layout, Telecom Layout Surrounding area in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Charan Constructions. (Prop: Kothandaraju T.S)

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.35**	95-100
26.50	**---**	-
22.40	**71.15**	60-80
11.20	**54.25**	40-60
4.75	**36.55**	25-40
2.36	**23.80**	15-30
0.600	**19.05**	8-22
0.075	**3.90**	0-5

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Date: 18-06-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.46%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.03%**	Not more than 35.0 %
3.	Water absorption, %	**0.43%**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

Assistant Executive Engineer
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NC/QC/BD/2021-22/W5-SMT-SC1 Date: 29-06-2021

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for SDBC mix sample.
{Project*: Improvements to Drains and Asphalting to Srirampura, MCECHS Layout, Telecom Layout Surrounding area in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Charan Constructions. (Prop: Kothandaraju T.S)

TEST RESULTS

A. Type of Construction : **Semi Dense Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.04 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-15 of MORTH Specifications-2001 (Grading – 2)
13.2	**100.00**	100
9.5	**96.25**	90—100
4.75	**47.10**	35—51
2.36	**32.70**	24—39
1.18	**25.05**	15—30
0.3	**17.35**	09—19
0.075	**5.25**	03—08

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NEWZEN CONSULTANT Bangalore

NC/QC/BD/2021-22/W5-SMT-SC2 Date: 30-06-2021

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for SDBC mix sample.
{Project*: Improvements to Drains and Asphalting to Srirampura, MCECHS Layout, Telecom Layout Surrounding area in Ward No 05 Jakkur Byatarayanapura Sub Division.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Charan Constructions. (Prop: Kothandaraju T.S)

TEST RESULTS

A. Type of Construction : **Semi Dense Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.03 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-15 of MORTH Specifications-2001 (Grading – 2)
13.2	**100**	100
9.5	**98.15**	90-100
4.75	**48.35**	35—51
2.36	**31.05**	24—39
1.18	**24.55**	15—30
0.3	**16.80**	09—19
0.075	**6.10**	03—08

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